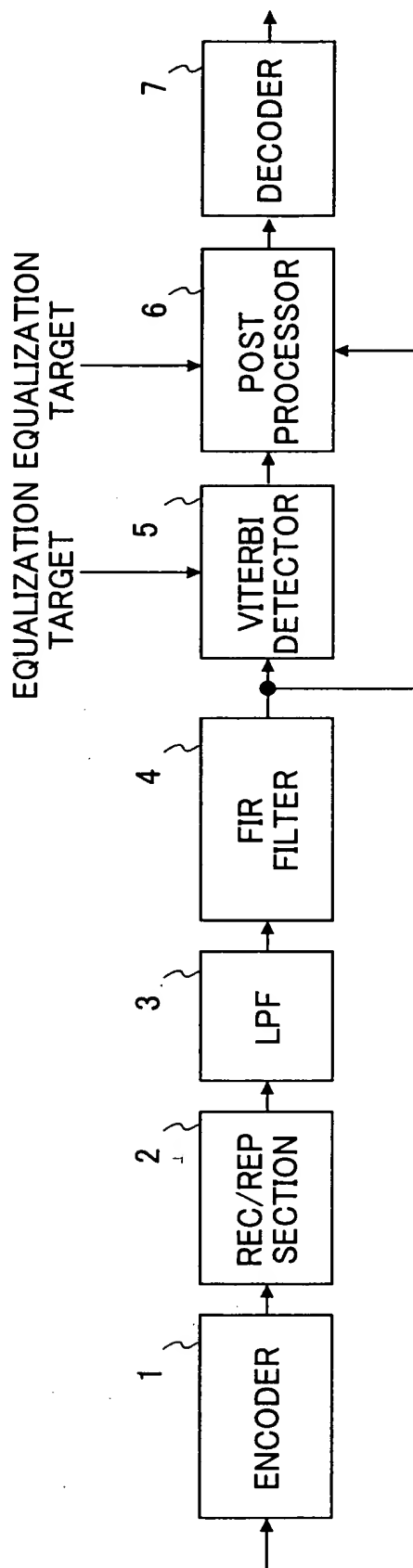
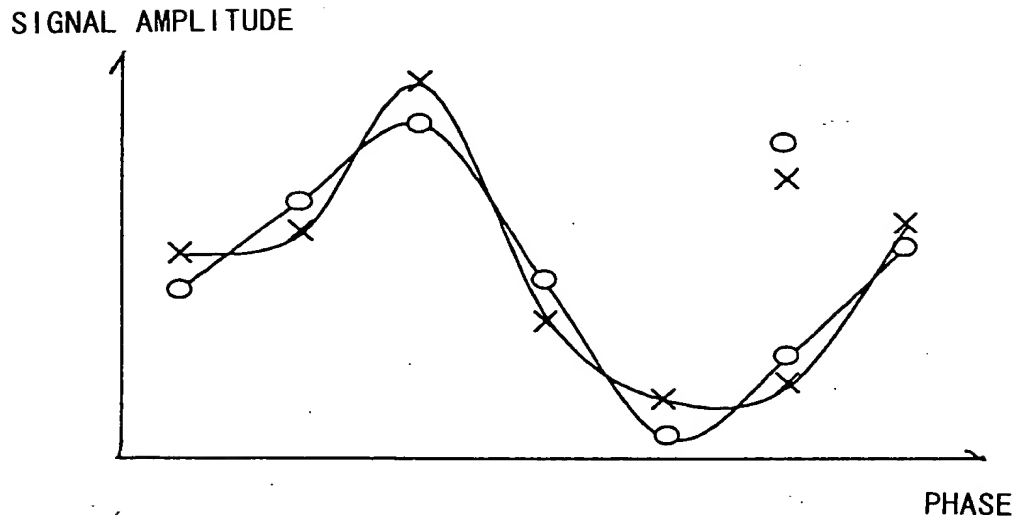


FIG.1



182

FIG. 2



000111-080201

FIG.3

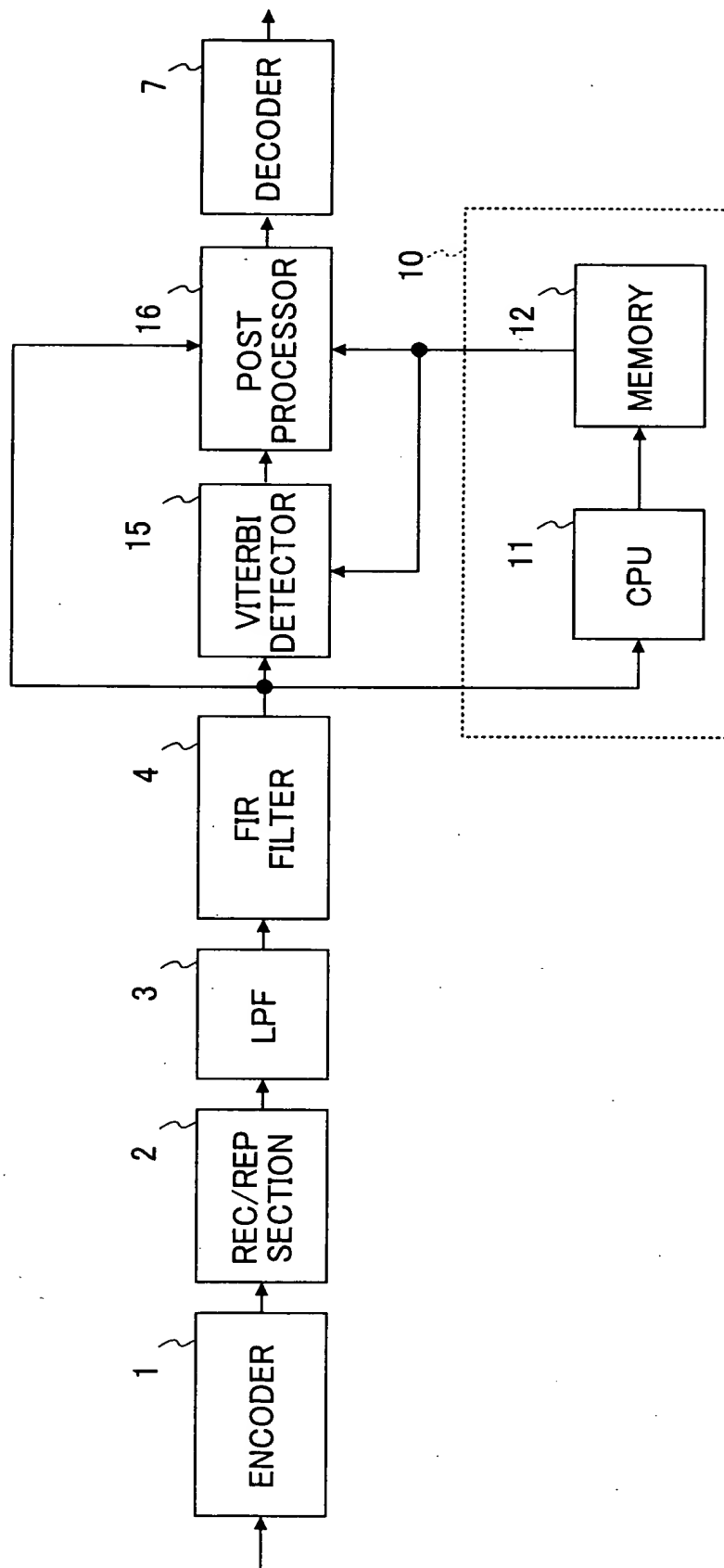


FIG.4

a _k -3a _k -2a _k -1a _k	EQUALIZATION OUTPUT b _k	
	IDEAL EQUALIZATION VALUE	AVERAGE VALUE OF ACTUAL EQUALIZED WAVEFORM
0000	0	μ_0
0001	+1	μ_1
0010	+1	μ_2
0011	+2	μ_3
0100	-1	μ_4
0101	0	μ_5
0110	0	μ_6
0111	+1	μ_7
1000	-1	μ_8
1001	0	μ_9
1010	0	μ_{10}
1011	+1	μ_{11}
1100	-2	μ_{12}
1101	-1	μ_{13}
1110	-1	μ_{14}
1111	0	μ_{15}

0000 0001 0010 0011 0100 0101 0110 0111 1000 1001 1010 1011 1100 1101 1110 1111

FIG.5

ak-2ak-1ak	STATE
000	S ₀
001	S ₁
010	S ₂
011	S ₃
100	S ₄
101	S ₅
110	S ₆
111	S ₇

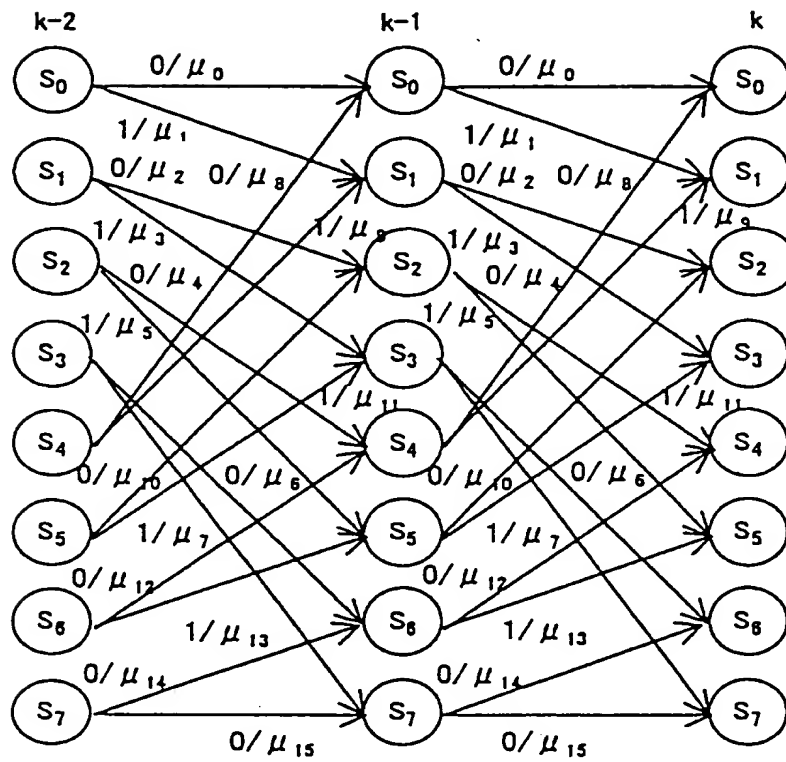
000111 000201
102000 112001

FOUO F F F F F F F F F F

FIG.6

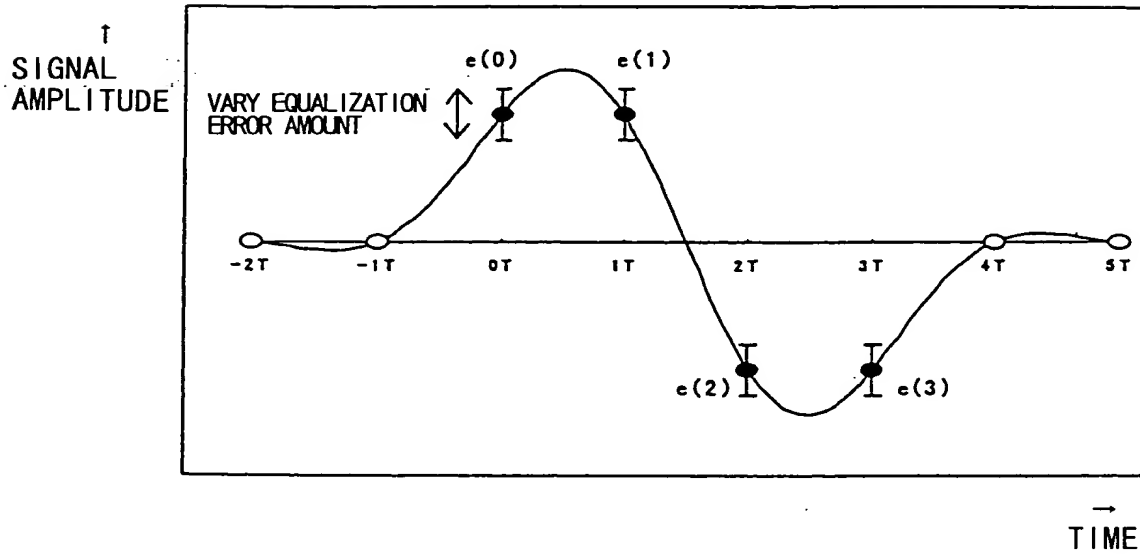
STATE OF 1 BIT BEFORE	PRESENT STATE			PRESENT EQUALIZATION OUTPUT b_k		
	IDEAL VALUE			AVERAGE VALUE OF ACTUAL EQUALIZED WAVEFORM		
	a_k	0	1	a_k	0	1
S_0	S_0	S_1	0	+1	μ_0	μ_1
S_1	S_2	S_3	+1	+2	μ_2	μ_3
S_2	S_4	S_5	-1	0	μ_4	μ_5
S_3	S_6	S_7	0	+1	μ_6	μ_7
S_4	S_0	S_1	-1	0	μ_8	μ_9
S_5	S_2	S_3	0	+1	μ_{10}	μ_{11}
S_6	S_4	S_5	-2	-1	μ_{12}	μ_{13}
S_7	S_6	S_7	-1	0	μ_{14}	μ_{15}

FIG. 7



000111 000201

FIG. 8



0002144-090204

FIG. 9

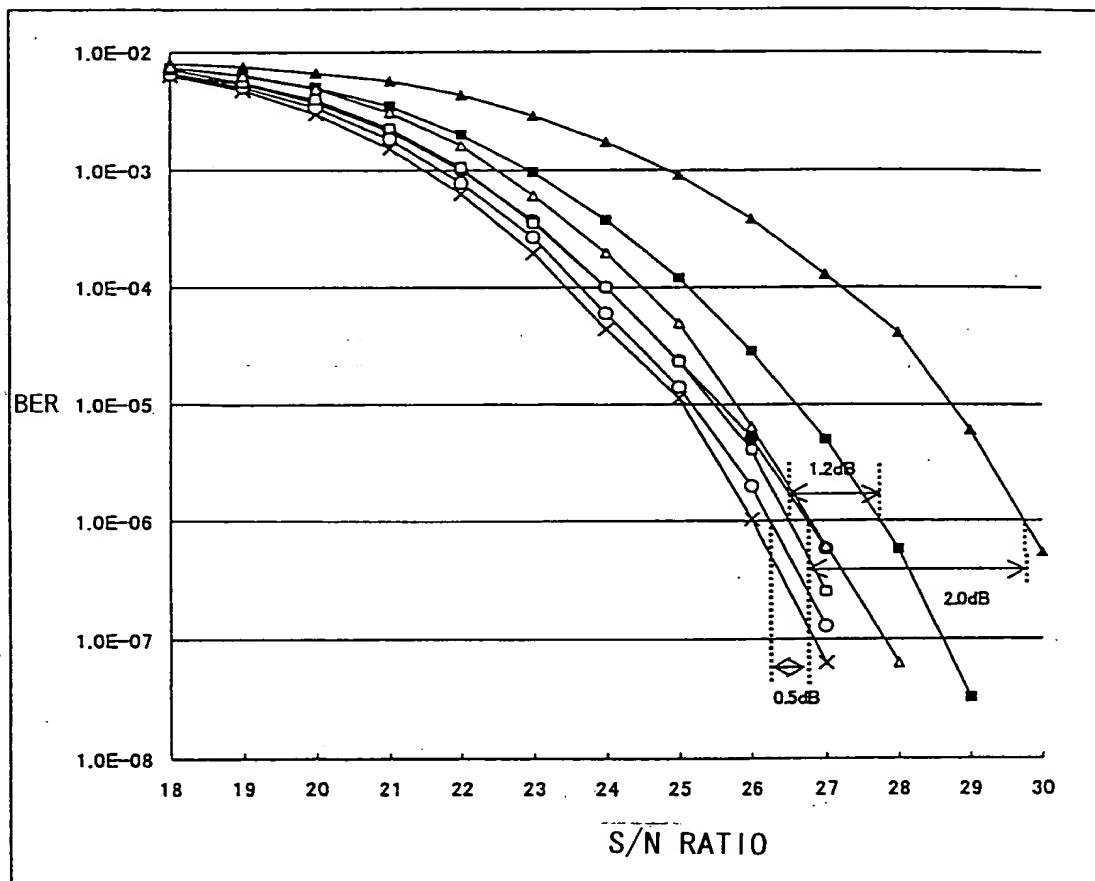


FIG.10

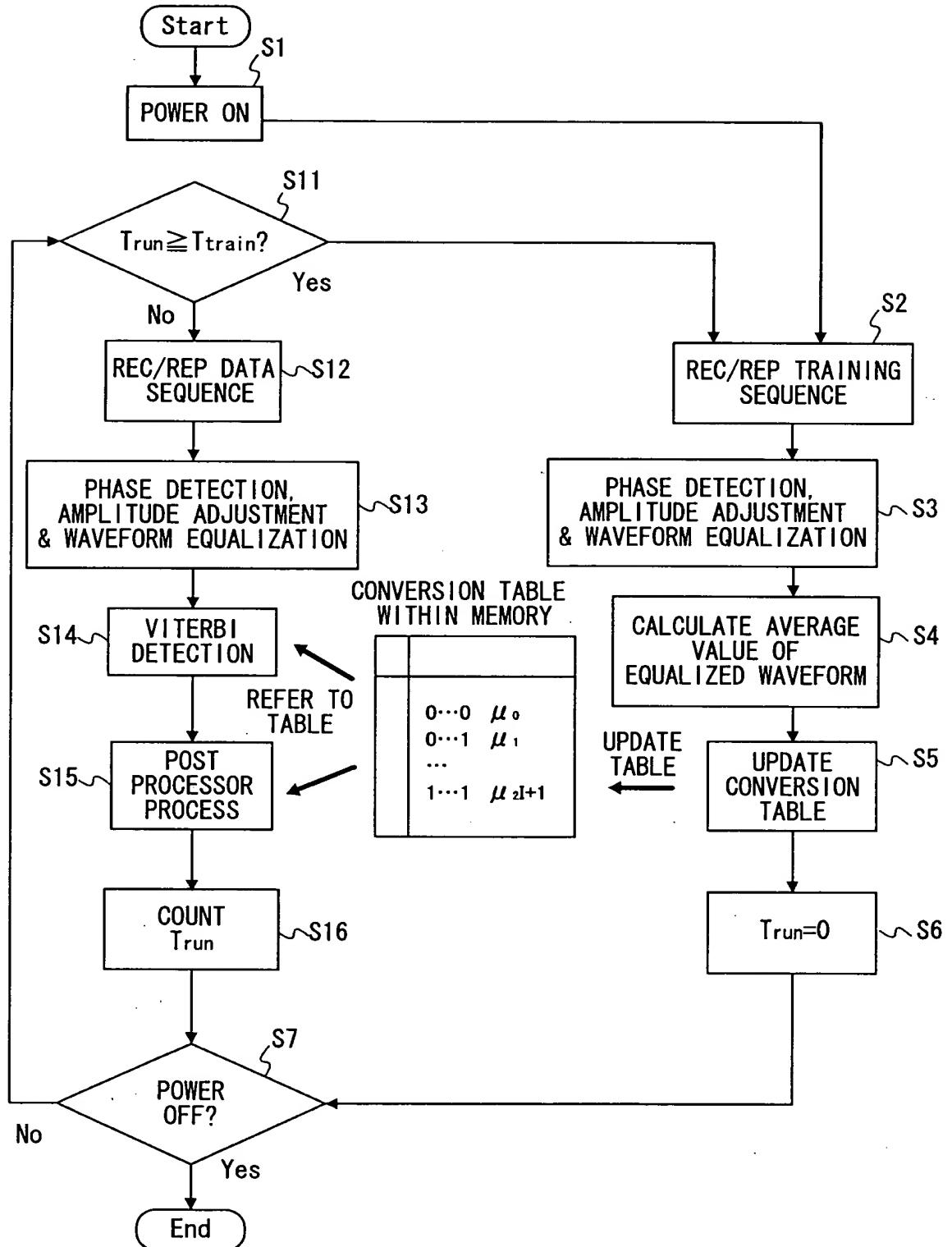


FIG.11

a_{k-2}	a_{k-1}	a_k	COMPENSATION AMOUNT
0	0	1	—
0	1	1	T_{01}
1	0	1	T_{10}
1	1	1	T_{11}

0941.65729 (312) 360 0080

102000 1112000

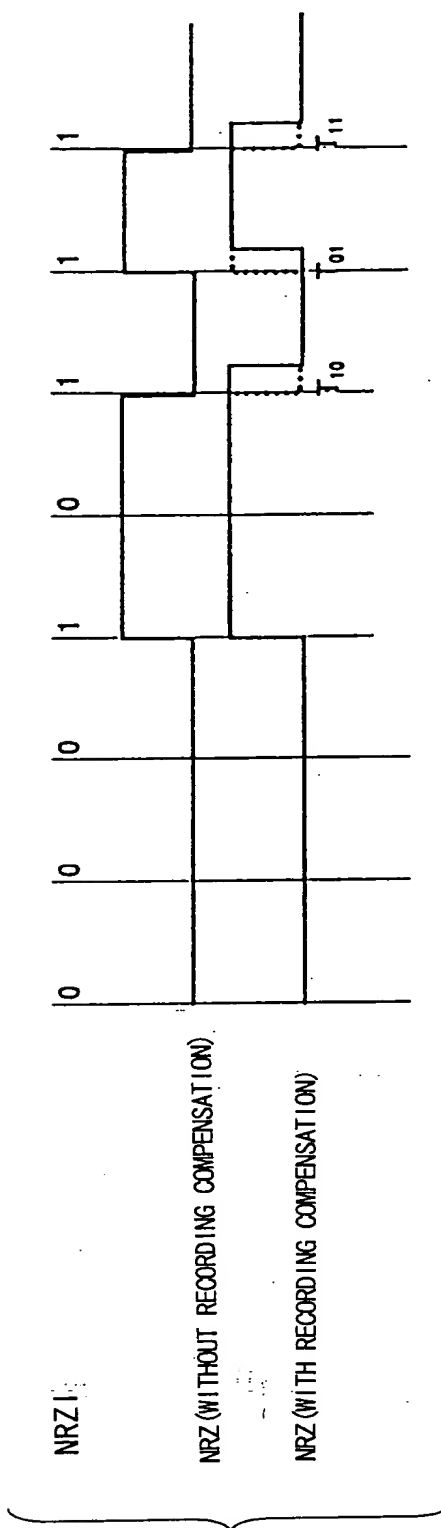
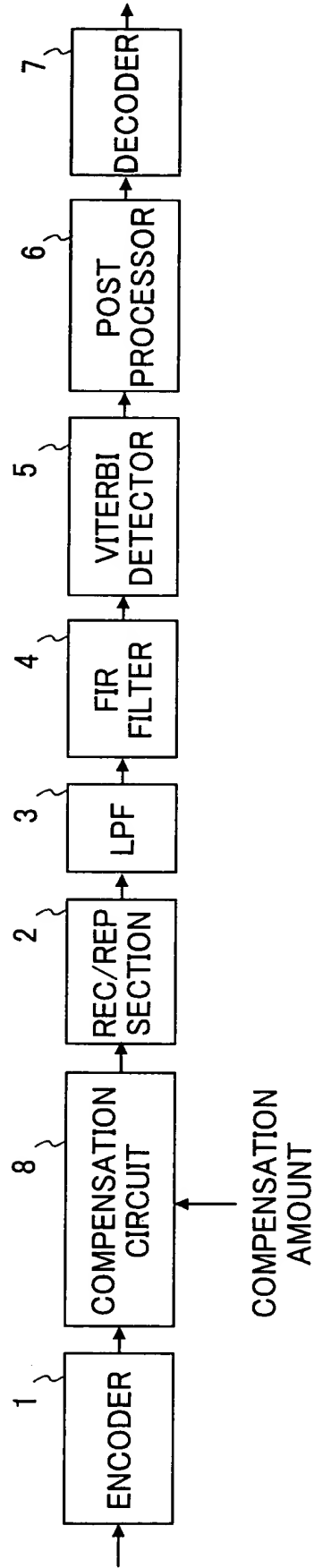


FIG. 12

FIG.13



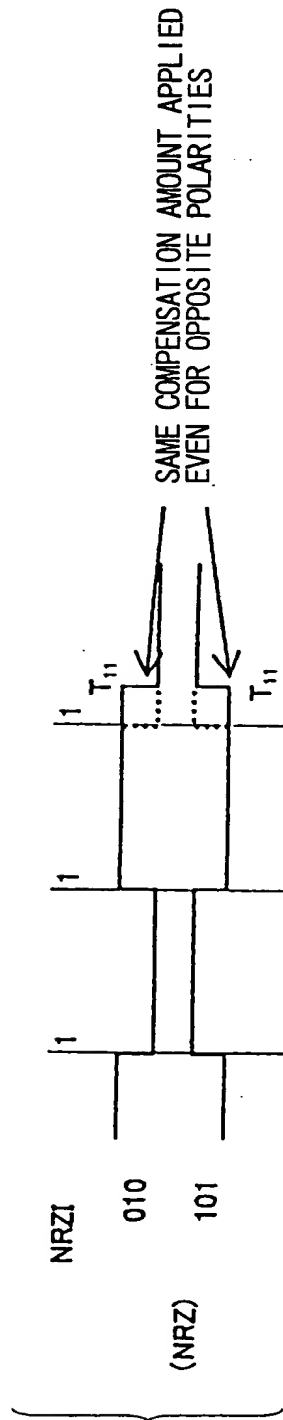


FIG. 14

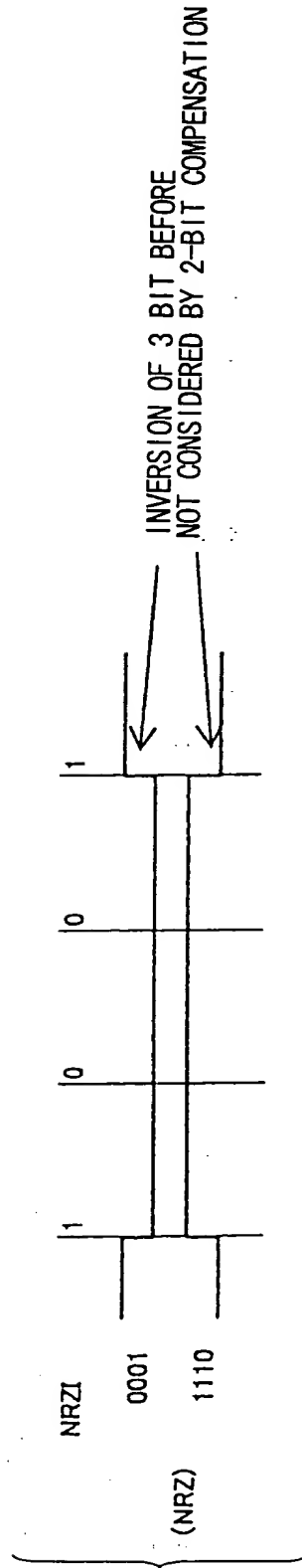
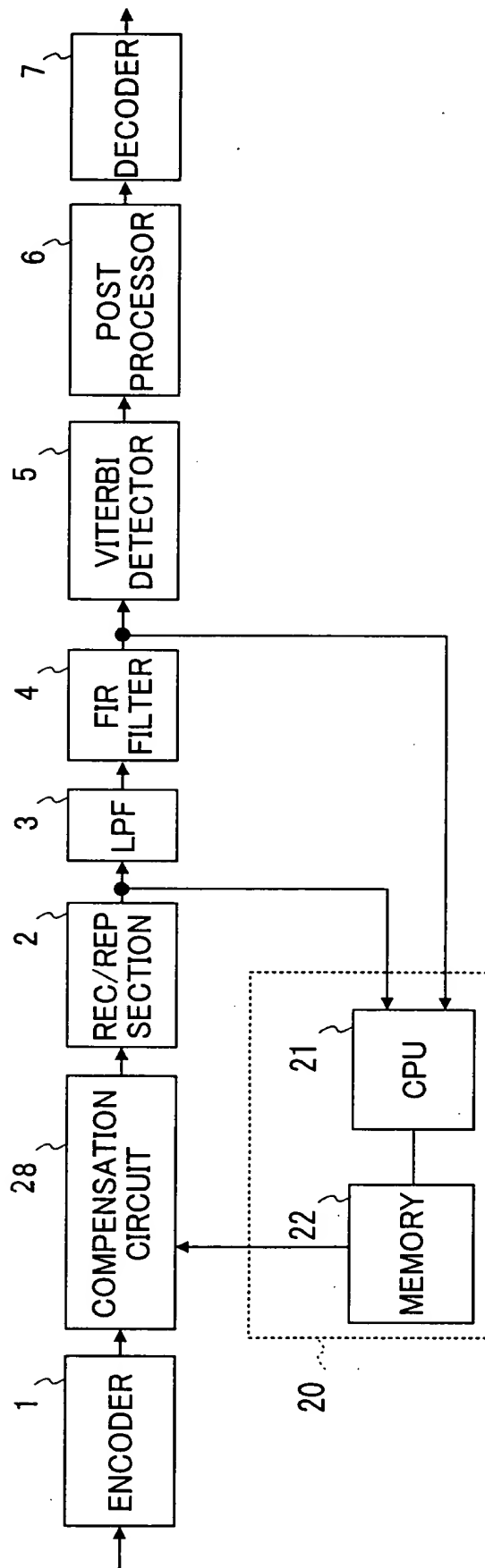


FIG. 15

FIG. 15

FIG.16



[illegible]

FIG.17

a_{k-1}	\dots	a_k	\dots	a_{k+l}	POLARITY	COMPENSATION AMOUNT
0	\dots	1	\dots	0	$+$	$T_{0\dots l\dots 0}+$
	\dots		\dots		$-$	$T_{0\dots l\dots 0}-$
\dots	\dots	\dots	\dots	\dots	\dots	\dots
1	\dots	1	\dots	1	$+$	$T_{0\dots l\dots l}+$
					$-$	$T_{0\dots l\dots l}-$

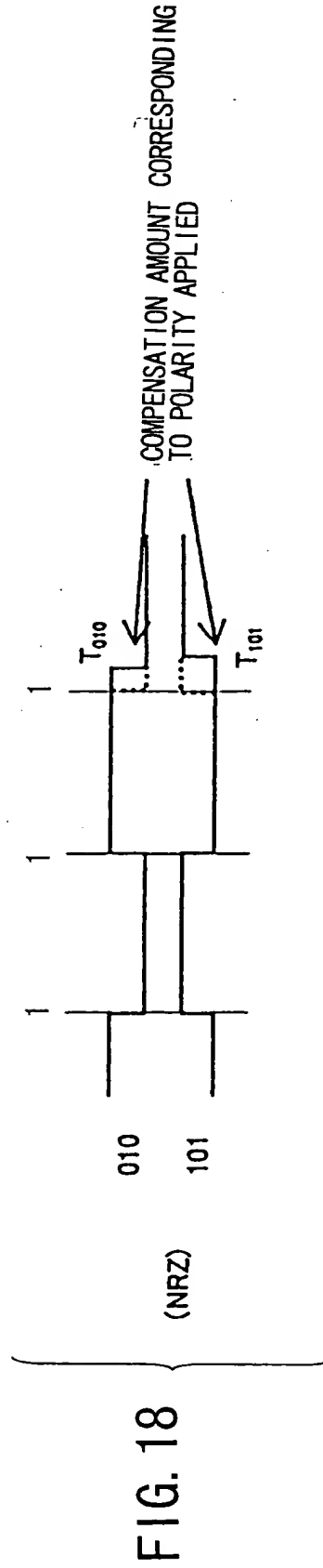


FIG. 18

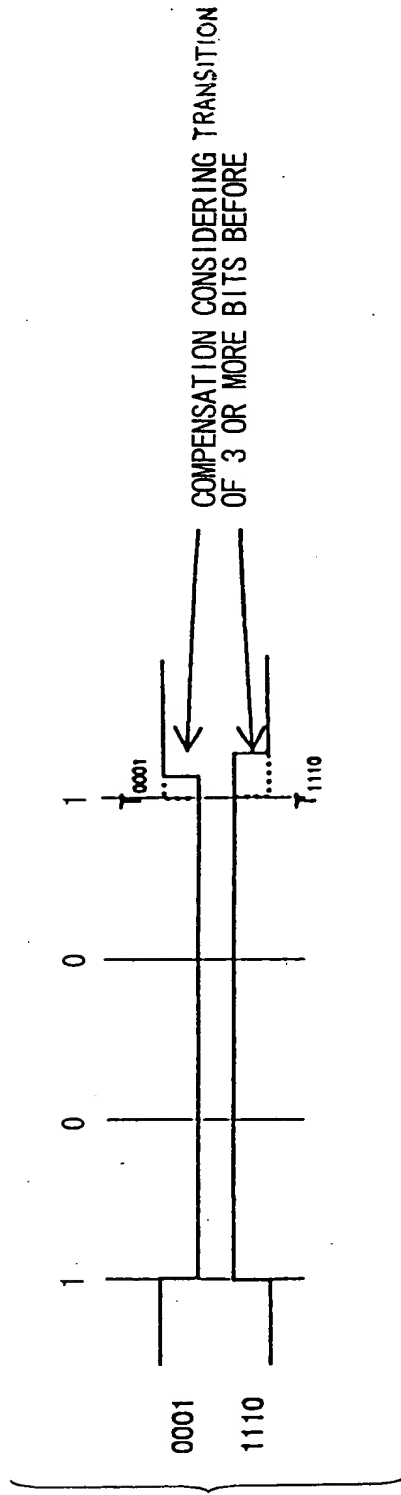


FIG. 19

FIG.20

RECORDING SEQUENCE					AVERAGE VALUE $w(t)$ ($-1 \leq t \leq 1$) OF OVER-SAMPLED REPRODUCED OR EQUALIZED WAVEFORM						
a_{k-1}	\dots	a_k	\dots	a_{k+l}	POLARITY	$w(-1)$	\dots	$w(0)$	\dots	$w(1)$	\dots
0	\dots	1	\dots	0	+	$W(-1)0\dots1\dots0+$	\dots	$W(0)0\dots1\dots0+$	\dots	$W(1)0\dots1\dots0+$	\dots
					-	$W(-1)0\dots1\dots0-$	\dots	$W(0)0\dots1\dots0-$	\dots	$W(1)0\dots1\dots0-$	\dots
0	\dots	1	\dots	0	+	$W(-1)0\dots1\dots1+$	\dots	$W(0)0\dots1\dots1+$	\dots	$W(1)0\dots1\dots1+$	\dots
					-	$W(-1)0\dots1\dots1-$	\dots	$W(0)0\dots1\dots1-$	\dots	$W(1)0\dots1\dots1-$	\dots
\dots	\dots	\dots	\dots	\dots	\dots	\dots	\dots	\dots	\dots	\dots	\dots
1	\dots	1	\dots	0	+	$W(-1)1\dots1\dots0+$	\dots	$W(0)1\dots1\dots0+$	\dots	$W(1)1\dots1\dots0+$	\dots
					-	$W(-1)1\dots1\dots0-$	\dots	$W(0)1\dots1\dots0-$	\dots	$W(1)1\dots1\dots0-$	\dots
1	\dots	1	\dots	1	+	$W(-1)1\dots1\dots1+$	\dots	$W(0)1\dots1\dots1+$	\dots	$W(1)1\dots1\dots1+$	\dots
					-	$W(-1)1\dots1\dots1-$	\dots	$W(0)1\dots1\dots1-$	\dots	$W(1)1\dots1\dots1-$	\dots

FIG. 21



FIG. 22

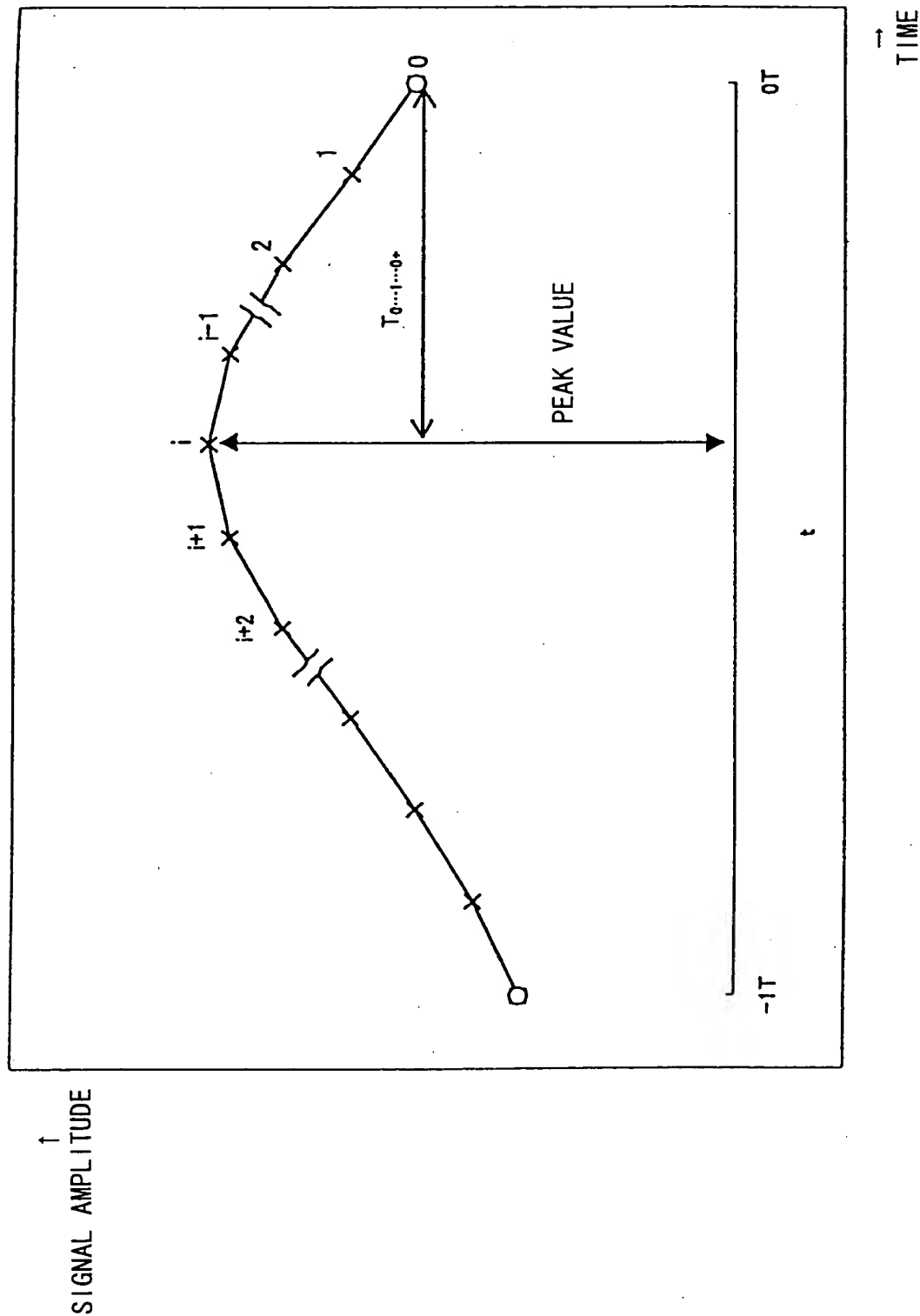


FIG. 23

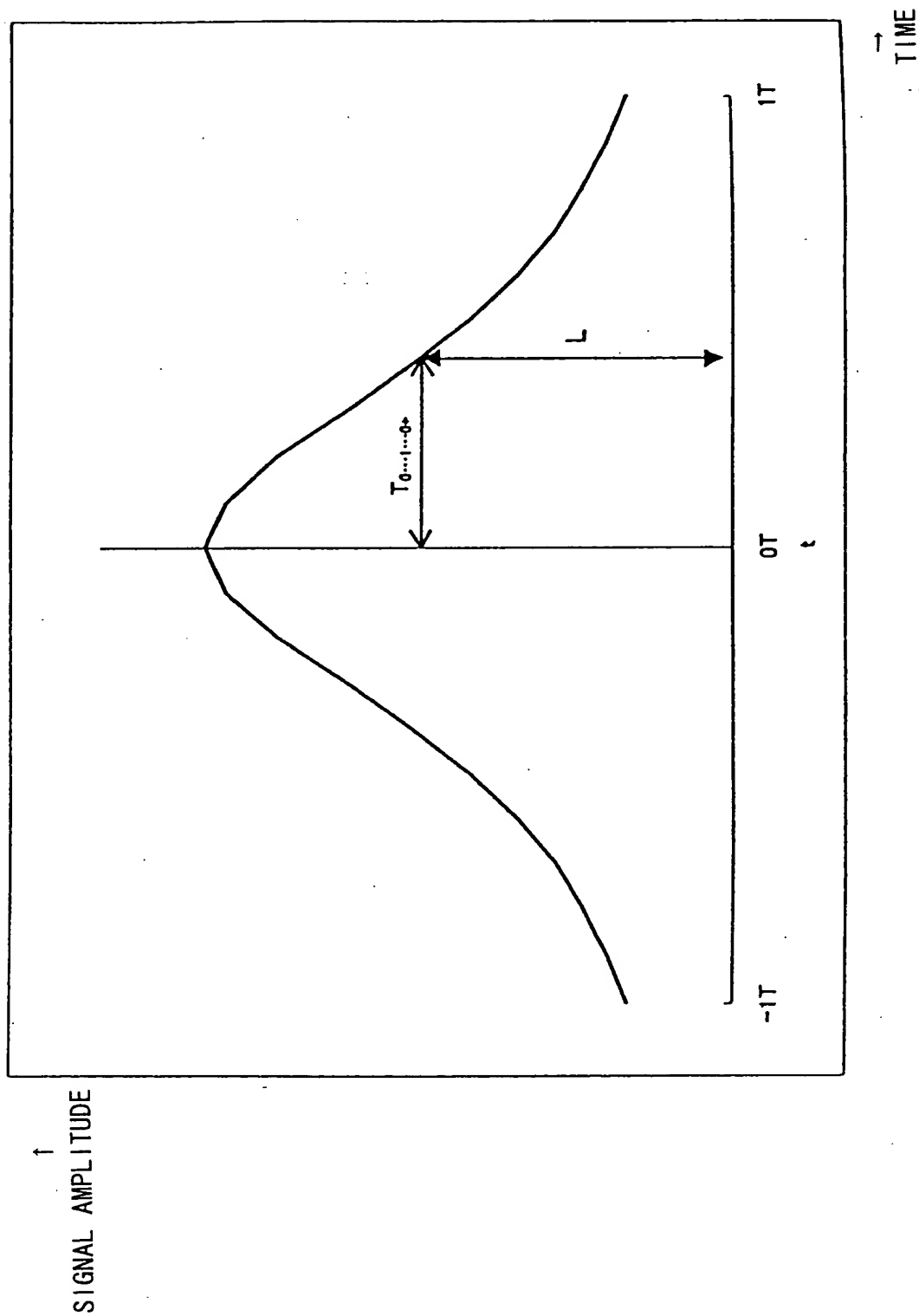


FIG.24

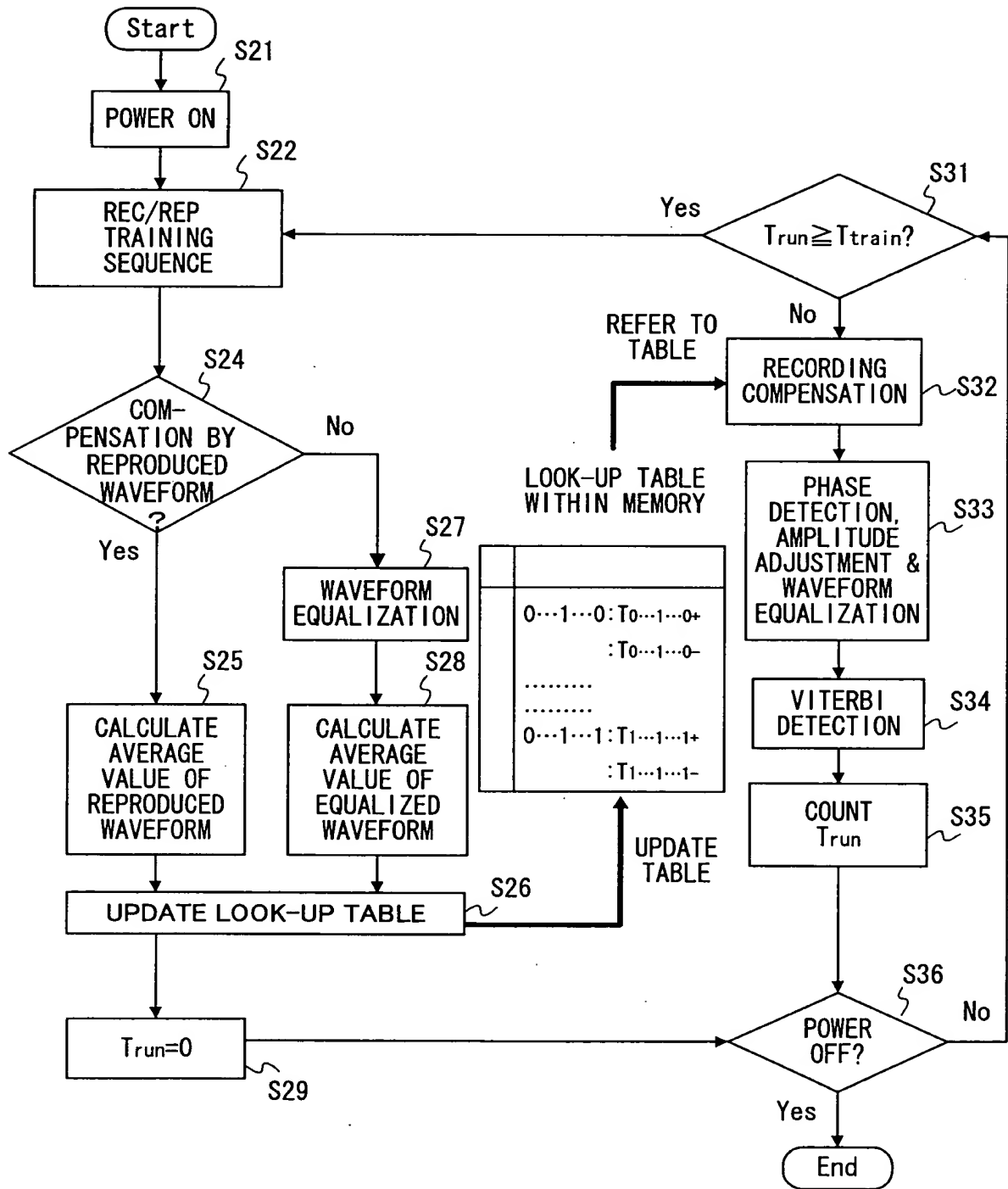


FIG.25

